

## Advanced Materials

# Epocast® 1619 A/B Epoxy Syntactic

- **Flame Retardant**
- **Room Temperature Cure**
- **Pourable**

### DESCRIPTION

Epocast® 1619 A/B epoxy syntactic is a low density, flame retardant compound for potting fasteners in honeycomb structures. The lightweight epoxy can be poured or extruded through a 1/8 in. (3mm) nozzle orifice. Epocast® 1619 A/B epoxy syntactic is resistant to water, fungus and most aircraft fluids and is qualified to BMS 5-28, Type 19.

### TYPICAL PROPERTIES AS RECEIVED

Property	Test Method	1619 A Resin	1619 B Hardener	Mixed System
Color	Visual	Off-white	Amber	Off-white
Density, g/cc	ASTM D1622	0.60	1.00	0.70
Viscosity, cP at 77°F (25°C)	ASTM D2196	Semi-paste	400	Semi-paste
Extrudability, 1/8 in nozzle, g/min	Huntsman	--	--	350
Gel Time, 50g at 77°F (25°C), min	ASTM D2471	--	--	20-50

### MIX RATIO

To 100 parts by weight of Epocast® 1619 A resin, add 25 parts by weight of Epocast® 1619 B hardener. Mix both components thoroughly for several minutes to assure complete blending.

### CURE SCHEDULE

Seven days at 77°F (25°C), or gel at room temperature plus five hours at 125°F (52°C).

**TYPICAL CURED PROPERTIES** (Not for specification purposes)

Test	Test Method	Result
Lap shear strength, Al-Al, at 77°F (25°C), psi (MPa)	ASTM D1002	1,250 (8.6)
Compressive strength, Ksi (MPa)	ASTM D695	
at 77°F (25°C)		6,000 (41.3)
at 180°F (82°C)		480 (3.3)
Compressive modulus, Ksi (GPa) at 77°F (25°C)	ASTM D695	350 (2.4)
Hardness, Shore D	ASTM D2240	65
Weight change, 24 hours immersion at 77°F (25°C), %	ASTM D543	
Mil-S-3136, Type III test fluid		0.3
Mil-M-5606 hydraulic fluid		0.4
Skydrol 500A		0.6
Distilled water		1.5
Flammability	--	Self-extinguishing

**STORAGE**

Epocast® 1619-A/B should be stored in a dry place, in the sealed original container, at temperatures between +2°C and +40°C (+35.6°F and 104°F). The product should not be exposed to direct sunlight. Under these storage conditions, and when supplied under Huntsman standard certification, this product has a shelf life of 6 months from date of shipment (expiration date may differ based on customer specification).

Material temperatures should be above 18°C (65°F) when mixing. After use, tightly reseal containers.

**PRECAUTIONARY STATEMENT**

Huntsman Advanced Materials Americas LLC maintains up-to-date Material Safety Data Sheets (MSDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement prior to using this material.

**First Aid!**

Refer to MSDS as mentioned above.

**KEEP OUT OF REACH OF CHILDREN. FOR PROFESSIONAL AND INDUSTRIAL USE ONLY.**

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